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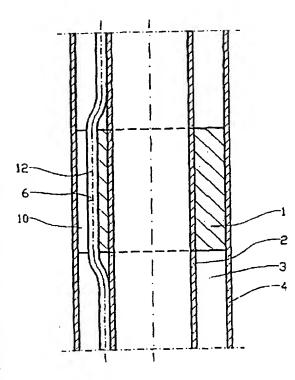
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[Continued on next page]

(54) Title: A CABLE DUCT DEVICE IN A SWELLING PACKER



II-II

(57) Abstract: A cable duct device in a swellable packer (1) of the kind in which the packer (1) is adapted to be able of scaling an annulus (3), and in which the swellable packer (1) is provided with at least one opening (6) therethrough adapted to constitute a duct for a cable (12).

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A. CLASSIFICATION OF SUBJECT MATTER								
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WPI DATA, EPO-INTERNAL								
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where ap	Relevant to claim No.						
х	US 6173788 B1 (JEFFREY J. LEMBE)	1-5						
	16 January 2001 (16.01.2001), See whole document							
х	US 3899631 A1 (BILLY E. CLARK),	1-5						
•	(12.08.1975), see wole document							
A	US 6135210 A1 (OLEGARIO S. RIVAS	1-5						
	(24.10.2000), column 4, line							
	line 20							
Α	US 2242166 A1 (E. O. BENNETT),	1-5						
	(13.05.1941), figures 3-4							
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Information on patent family members

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US	6173788	B1	16/01/2001	GB GB NO NO	2336170 A,B 9907757 D 315437 B 991638 A	13/10/1999 00/00/0000 01/09/2003 08/10/1999
us	3899631	A1	12/08/1975	NONE		
US	6135210	A1	24/10/2000	CA GB GB	2277566 A 2339816 A,B 9915984 D	16/01/2000 09/02/2000 00/00/0000
US	2242166	A1	13/05/1941	NONE		

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